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Certificate of Analysis
LYNa, 10 µg

Recombinant Human v-yes-1 Yamaguchi Sarcoma Viral Related Oncogene Homolog, Histidine-tagged
Cat Number: BIOTK-LYNa
Lot Number: 3-08

Description:
Recombinant Human Full-Length protein, Histidine-tagged, expressed in insect cells. No special measures were taken to activate this kinase.

Specific Activity:
290 nmole of phosphate transferred to Poly E_4Y peptide substrate (Sigma, P0275) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 0.7 µg/mL.

Protein Concentration:
0.08 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

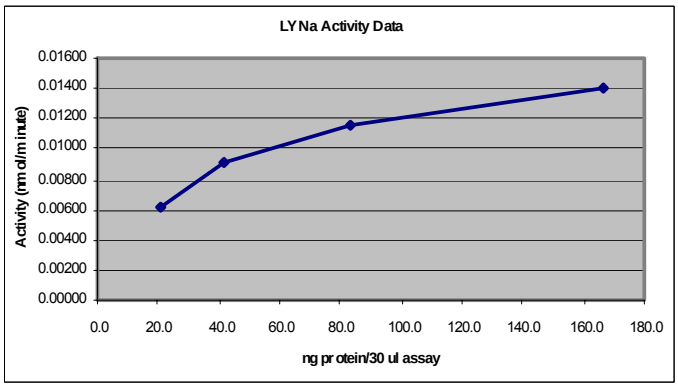
Storage and Handling:
Store at -80°C for long time. At first use, aliquot and to avoid multiple freeze-thaw cycles. If properly stored at -80°C, this product is guaranteed for 12 months from date of purchase. **Protein stable for 6 months at -20°C, for 3-5 h at 4°C and not stable at room temperature.**

Storage Buffer:
50 mM Tris (pH 7.5), 150 mM NaCl, 0.02% Triton® X-100, 2 mM DTT, 50% Glycerol

Enzyme Dilution Buffer:
50 mM Tris (pH 7.5), 10% Glycerol, 0.02% Triton® X-100, 0.1 mg/mL BSA, 0.5 mM Na_3VO_4, 2 mM DTT

Quality Assurance

Activity Graph:

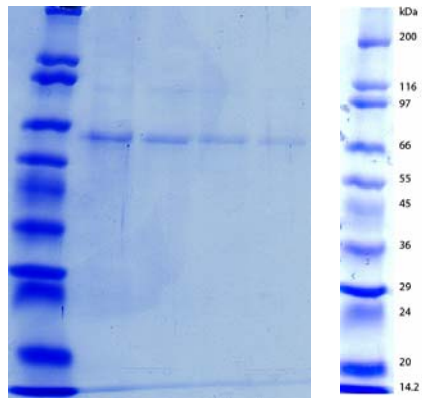


Assay Conditions:
The enzyme was pre-diluted in enzyme dilution buffer and assayed in 50 mM Tris (pH 7.5), 0.01% Tween-20, 5 mM $MgCl_2$, 5 mM $MnCl_2$, 0.5 mM Na_3VO_4, 2 mM DTT, 10 µM ATP, 50 µg Poly E_4Y peptide substrate per reaction and trace [^{32}P]-γ-ATP for 10 minutes at 30°C.

Purity:
≥80% as determined by a Coomassie blue-stained SDS-PAGE gel.

Molecular Weight:
63 kDa calculated from the sequence below.

PAGE Description:



The SDS-PAGE was run on a 10 well 4-20% Tris-Glycine Novex gel (Catalog #: EC6025BOX).

Lane 1: SigmaMarker, Wide Range, Molecular Weight (Catalog#: S8445, Sigma)
Lane 2: 1.25 µg LYNa
Lane 3: 0.625 µg LYNa
Lane 4: 0.312 µg LYNa
Lane 5: 0.156 µg LYNa

Protein Sequence:

MSYYHHHHHH DYDIPTTENL YFQGAMGS**GC IKSKGKDSLS DDGVDLKTQP VRNTERTIYV RDPTSNKQQR PVPESQLLPG QRFQTKDPEE QGDIVVALYP** 100
YDGIHPDDLS FKKGEKMKVL EEHGEWWKAK SLLTKKEGFI PSNYVAKLNT LETEEWFFKD ITRKDAERQL LAPGNSAGAF LIRESETLKG SFSLSVRDFD 200
PVHGDVIKHY KIRSLDNGGY YISPRITFPC ISDMIKHYQK QADGLCRRLE KACISPKPQK PWDKDAWEIP RESIKLVKRL GAGQFGEVWM GYYNNSTKVA 300
VKTLKPGTMS VQAFLEEANL MKTLQHDKLV RLYAVVTREE PIYIITEYMA KGSLLDFLKS DEGGKVLLPK LIDFSAQIAE GMAYIERKNY IHRDLRAANV 400
LVSESLMCKI ADFGLARVIE DNEYTAREGA KFPIKWTAPE AINFGCFTIK SDVWSFGILL YEIVTYGKIP YPGRTNADVM TALSQGYRMP RVENCPDELY 500
DIMKMCWKEK AEERPTFDYL QSVLDDFYTA TEGQYQQQPS RHAVPSLSRS TRGS. 555

2-512 amino acids from LYNa (GenBank Accession Number NP_002341) in bold.